

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2

ROZHDESTVENSKIY, V.M.; KUCHERENKO, Y.D.; KIKTENKO, V.S.; AGAFONOV, V.I.

Academician Daniil Kirillovich Zabolotnyi, outstanding scientist and
humanitarian. Zhur. mikrobiol. epid. i immun. no.12:17-23 no.12:17-
23 D '54. (MIRA 8:2)
(ZABOLOTNYI, DANIIL KIRILLOVICH, 1866-1929)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2"

KUCHERENKO, V D
USSR/Medicine - Immunology

FD-2614

Card 1/1 Pub. 148 - 25/25

Author : Kucherenko, V. D.

Title : ~~The problem of nerve receptivity during immunogenesis~~

Periodical : Zhur. mikro. epid. i immun., 4, 111-114, Apr 1955

Abstract : It was observed that there was an uneven response on the part of the neuroreceptive apparatuses of various organs and systems in an organism when antigens were introduced into them. It was found that the most effective method of tetanus immunization was intramuscular administration. The use of an anesthetic helped reveal the part played by the nervous system in the immunobiological reorganization of an organism. A supplementary stimulus, i.e. the introduction of a physiological salt solution, increased and accelerated the immunobiological reorganization of the organisms of animals. The results of the experiments are presented on two charts. No references are cited.

Institution : Laboratory of the Pathophysiology of Infection and Immunity (Head-
Prof. A. Ya. Alymov), Institute of General Pathology and Experi-
mental Therapy, Academy of Medical Sciences USSR (Director - A. D.
Speranskiy)

Submitted : April 30, 1954

USSR/Medicine - Neurophysiology, Immunology

FD-3361

Card 1/1 Pub. 148-23/24

Author : Alymov, A. Ya. and Kucherenko, V. D.

Title : Nervous reception and its importance in immunogenesis

Periodical : Zhur. mikro. epid. i immun. 10, 97-103, Oct 1955

Abstract : The effect of the central nervous system on the development of immunity is discussed in connection with I. P. Pavlov's theory of nervism. The author cites the works of various Soviet authors in this field to support his argument that the central nervous system plays an important role in the development of immunity. Six Soviet references are cited.

Institution : --

Submitted : May 12, 1955

KIETENKO, V.S., ASHROVA, I.Kh., KUCHERENKO, V.D.

Simplified method for setting up the agglutinin adsorption test.
Voen.-med.shur. no.12:46-47 D'55
(MIRA 12:1)
(AGGLUTINATION)

KUCHERENKO, V.D.

Relationship between serum titer and the method of injecting
dysenteric antigens. Lab.delo 2 no.6:12-14 N-D '56. (MLRA 9:12)
(SERUM) (ANTIGENS AND ANTIBODIES)

KIKTENKO, V.S., polkovnik med.sluzhby, doktor med.nauk, ASHurova, I.Ch.
KUCHERENKO, V.D., mayor med.sluzhby, kand.med.nauk, KASHANOVA, N.I.
podpolkovnik med.sluzhby, kand.med.nauk

Method for taking air samples in making bacteriological analyses.
Voen.-medzhur. no.11:45-49 N°56 (MIRA 12:1)
(AIR-BACTERIOLOGY)

112. New Air-Sampling Apparatus Evaluated

"The Problem of Methods of Collecting Samples of Air for Bacteriological Analyses," by V. S. Kiktenko, I. Kh. Ashurova, V. D. Kucherenko, and N. I. Kashanova, Voyenno-Meditsinskiy Zhurnal, No 11, Nov 56, pp 50-54

The article discusses insufficiencies inherent in the construction of air-sampling devices currently in use, particularly the S. S. Rechmenskiy apparatus. It is considered that the greatest possibilities for collecting bacteria, viruses, rickettsiae, and toxins are afforded by devices which operate on the basis of air filtration through liquid or dry (soluble or insoluble) filters.

A new apparatus, illustrated in Figure 1 [Photo No 270559], for collecting air samples for bacteriological analysis is described. Briefly, the apparatus consists of a U-shaped glass tube 25 cm long with a diameter of 1.5 cm, connected by a short rubber tube to an inverted 250 ml bottle 14 cm deep and 6.5 cm in diameter. The bottle has a spigot at the bottom with an opening of 1.5 cm. The assembled apparatus makes it possible to connect vessels of varying diameter and volume. The tube and part of the bottle are filled with glass beads; 40 ml of physiological solution of bouillon (peptone water) is poured into the apparatus. A rubber tube 30-40 cm long is attached to the tube at the bottom of the bottle, and air is filtered

through the liquid by an aspirator attached to the opening of this tube. Inclusion of the beads in the system provides greater surface for aerosol adsorption, thus accelerating the process considerably.

Experiments with the above-described apparatus showed that the use of bouillon or peptone water increased the collecting capacity of the apparatus. After filtration of the air, the fluid was poured into a glass container and investigated by usual methods depending on the situation. It is noted that any test can be performed with 30 ml of liquid, including biological tests on animals.

The article mentions that an ordinary pump [Photo No 270560] can be used for aspiration of the air (in addition to aspiration by mouth). If the test is carried out in an infected atmosphere, the apparatus can be connected to the inhalation valve of a gas mask. Volume of air aspirated is calculated according to the usual method, described in the text. On completion of the experiments, the accuracy of the calculations was verified by special tests in which a gasometer was used.

The authors discuss preliminary experiments in which the collecting capacities of the Pasteur flask, the Koch method, and the apparatuses of Krotov, Rechmenskiy, and D'yakanov were comparatively evaluated. They state that performance identical with that of the proposed apparatus can be obtained only by the use of the last mentioned device. It was established in these tests that the apparatus proposed collects two-three times more saprophytic microflora than the D'yakanov apparatus. Testing of the remaining devices was limited to trapping specific microflora in the air; intestinal bacilli, dispersed in an aerosol chamber by means of a special atomizer, was used as an experimental subject. The method used in these experiments, the results of which are presented in a table, is described in detail. The capacity of the new apparatus to collect intestinal bacilli was shown to be 2.8 times higher than that of the D'yakanov apparatus. The rate of aspiration of air by the new apparatus is almost ten times greater (480 liters per hour) than that of the D'yakanov apparatus (50 liters per hour). Despite this fact (the collecting capacity of an apparatus supposedly being inversely proportional to the rate of aspiration), the collecting capacity of the new apparatus is higher than that of the D'yakanov system.

It is concluded on the basis of statistical calculations that there exists complete correlation between the experimental data collected in testing the apparatuses, the coefficient of correlation being + 0.97. The authors consider that the higher coefficient obtained in the experiments described correctly reflects the great efficiency of the proposed apparatus. This apparatus is recommended for collecting air samples for bacteriological investigations in hospitals and field bacteriological laboratories. (U)

ALYMOV, A.Ya., prof.; KUCHMENKO, V.D. (Moskva)

Pirogov's views on the nature, epidemiology, and prophylaxis
of some infectious diseases. Vrach.delo no.12:1325-1327
D '56. (MIRA 12:10)

1. Chlen-korrespondent AMN SSSR (for Alymov).
(PIROGOV, NIKOLAI IVANOVICH, 1810-1881)

KUCHEREVKO, V.D.; ALYMOV, A.Ya.

Effect of nonspecific stimulations on immunogenesis. Trudy
Inst. norm. i pat. fiziol. AMN SSSR no.1:146-150 '58

(MIRA 16:12)

1. Iz laboratorii infektsionnoy patologii (zav. - chlen-kor-
respondent AMN SSSR prof. A.Ya. Alymov) otdela patologii
(zav. - akademik A.D.Speranskiy) Instituta normal'noy i
patologicheskoy fiziologii AMN SSSR.

KIKHENKO, V.S., KUCHERENKO, V.D.

Possibility of the propagation of pathogenic microorganisms in the
external environment. Zhur.mikrobiol.epid. i immun. 29 no.5:133-136
(MIRA 11:6)

My '58

(COMMUNICABLE DISEASES, transmission,
through environmental microorganisms, review (Rus))

SKVORTSOV, Vitaliy Vasil'yevich, KIKTENKO, Vasiliy Sil'vestrovich;
KUCHERENKO, Vasiliy Dorofiyevich; ROZHDESTVENSKIY, V.M.,
red.; SENCHILO, K.K., tekhn. red.

[Viability and detection of pathogenic microbes in an external
medium] Vyzhivaemost' i indikatsiya patogennykh mikrobov vo
vneshnei srede. Moskva, Medgiz, 1960. 348 p. (MIRA 16:1)
(BACTERIA, PATHOGENIC)

ABELEV, G.I., kand. med. nauk; BUJ.RINSKAYA, A.G., kand. med. nauk; GEL'TSER, R.R., prof.; GOLINEVICH, Ye.M., prof.; ZHDANOV, V.M., prof.; ZDRODOVSKIY, P.F., prof.; KALINA, G.P., prof.; KAULEN, D.R., kand. med. nauk; KIKTENKO, V.S., prof.; KRYLOVA, O.P., kand. med. nauk; KUCHERENKO, V.D., kand. med. nauk; LOMAKIN, M.S., kand. med. nauk; MOSING, G.S., doktor med. nauk; PERSHINA, Z.G., kand. sel'khoz. nauk; PEKHOV, A.P., doktor biol. nauk; PESHKOV, M.A., prof.; TIKHONENKO, T.I., kand. med. nauk; TOVARNITSKIY, V.I., prof.; SHEN, R.M., prof.; ETINGOF, R.N., kand. med. nauk; KALININA, G.P., prof., nauchnyy red. toma; ZHUKOV-VEREZHNICKOV, N.N., prof., otv. red.; VYGODCHIKOV, G.V., prof., zamest. otv. red.; TIMAKOV, V.D., prof., zam. otv. red. BAROYAN, O.A., prof., red.; KALINA, G.P., red.; PETROVA, N.K., tekhn. red.

[Multivolume manual on the microbiology, clinic, and epidemiology of infectious diseases] Mnogotomnoe rukovodstvo po mikrobiologii klinike i epidemiologii infektsionnykh boleznei. Moskva, Medgiz, Vol.2. [General microbiology] Obshchaya mikrobiologiya. Red. V.M. Zhdanov. 1962. 535 p. (MIRA 16:1)

(Continued on next card)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2

DMITRIYEV, I.A.; KUCHERENKO, V.D.

Some problems in the study of the demand for drugs. Art.
(MIRA 17:2)
deleno 12 no.4:14-18 Jl-Ag '63.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2"

KUCHERENKO, Vasiliy Dorofeyovich; NITYAYEVA, Yu.P., red.

[Detection of pathogenic microbes in the external environment] Indikatsiya patogennykh mikrobov vo vneshnoi srede. Moscow, Izd-vo Mosk. univ., 1964. 139 p. (MIRA 17:5)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2

UGRYUMOV, B.L.; RODINAEVSKIY, V.M.; RUDNEV, G.P.; AGAFONOV, V.I.;
KULAGIN, S.M.; KUCHERENKO, V.D.; KETENKO, V.S.

Andrei IAkovlevich Alymov, d.1965; obituary. Zhur. mikrobiol.,
epid. i immun. 42 no.8:156-157 Ag '65. (MIRA 18:9)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2"

S/148/62/000/008/009/009
E193/E383

AUTHORS: Grebenik, V.M., Tylkin, M.A., Kucherenko, V.F. and
Chernovich, Ye.M.

TITLE: Analysis of the fracture surfaces of parts of metal-
working equipment

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Chernaya metallurgiya, no. 8, 1962, 175 - 182

TEXT: A proper understanding of factors affecting the
importance to both the designer and user is of the utmost
that associated with fatigue and a great deal of useful information
can be obtained by examination of the precise cause of failure is
demonstrates the usefulness of this investigational method. To
present authors applied it to establish the cause of fracture of
six components. By correlating the service conditions of each
part with its material, heat-treatment, mechanical properties,

Card 1/3

S/148/62/000/008/009/009
E193/E383

Analysis of the fracture

macro- and microstructure and the patterns of the fracture
surfaces, they arrived at the following conclusions: 1) the
fracture of the jaw of the universal coupling of the upper roll
journal of a 750 stand was caused by a single overloading due
to accidentally folded strip passing through the rolls, the low
impact strength of the steel being a contributory factor;
2) the fracture in the second groove of the upper roll of a
blooming mill was caused by stress concentration contributing
to the formation of the first fatigue crack, which initiated
ductile fracture of the component; 3) the fracture of the
middle roll of a 3-high stand 550 was attributed to the fact
that the roll had not been preheated when it was reconditioned
by the building-up process. This set up internal stresses,
leading to the formation of a circumferential crack and later
to brittle fracture; 4) the fracture of the main shaft of the
flywheel of a 500 mm stand was caused by a large number of
short-duration overloads; 5) alternating loads caused the
fracture of a shaft in the reducing gear of a wire-drawing
machine; 6) alternating loads of a magnitude approaching the
Card 2/3

Analysis of the fracture

S/148/62/000/008/009/009
E193/E383

fatigue limit of the material caused fatigue fracture of the pulley of a blast-furnace charging-skip hoist. The examples quoted demonstrated the need for rigorous control of all the factors which might contribute to the formation of fatigue cracks (quality of the materials, design, heat and mechanical treatment, service loads, corrosive media). It was concluded that all working parts should be periodically inspected and if fatigue cracks were detected they should be removed. Detailed investigation of each failure should be carried out and the results used to take measures to prevent recurrence of the failure. There are 6 figures and 1 table.

ASSOCIATIONS: Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz
(Dneprodzerzhinsk Metallurgical Works- Vtuz)
Metallurgicheskiy zavod im. F.E. Dzerzhinskogo
(Metallurgical Works im. F.E. Dzerzhinsky)

SUBMITTED: March 27, 1961

Card 3/3

GREBENIK, V.M.; TYKIN, M.A.; KUCHERENKO, V.F.; CHERNIVICH, Ye.M.

Analysis of the breakage of metallurgical equipment parts. Izv.
vys. ucheb. zav.; chern. met. 5 no.8:175-182 '62. (MIRA 15:9)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz i
Metallurgicheskiy zavod im. F. E. Dzerzhinskogo.

TYL'KIN, M. A., kand. tekhn. nauk; GREBENIK, V. M., kand. tekhn. nauk;
KUCHERENKO, V. F., inzh.; ALPEYEV, V. G., inzh.;
NIKITSKAYA, V. A., inzh.

Heat treatment of crane wheels. Mashinostroenie no. 5:57-60
(MIRA 16:1)
S-0 '62.

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz im. M. I.
Arsenicheva (for Tyl'kin, Grebenik, Kucherenko). 2. Metallur-
gicheskiy zavod im. Dzerzhinskogo (for Alpeyev, Nikitskaya).

(Steel—Heat treatment)
(Cranes, derricks, etc.)

GREBENIK, V.M.; KUCHERENKO, V.F.

Experimental verification of conditions in summing-up damages.
Izv. vys. ucheb. zav.; chern. met. 6 no.12:212-220 '63.
(MIRA 17:1)

1. Dnepropetrovskiy metallurgicheskiy institut.

GREBENIK, V. M.; KUCHERENKO, V. F.

Experimental investigation of the effect of alternating over-
loads on fatigue strength and durability with and without stress
concentrations. Report No. 1. Izv. vys. ucheb. zav.; chern. met.
7 no.6:199-206 '64. (MIRA 17:7)

1. Dnepropetrovskiy metallurgicheskiy institut i Dneprodzerzhinskiy
metallurgicheskiy zavod-vtuz.

- KUCHEROV, V.F., doktor khim. nauk, sotrudnik, red.; RUDENKO, V.A., sotrudnik, red.; ANDREYEV, V.M., sotrudnik, red.; ONISHCHENKO, A.S., sotrudnik, red.; SEGAL, G.H., sotrudnik, red.; SATAROVA, M.V., red.; GRIBOVÁ, M.P., tekhn. red.

[Stereochemistry of cyclohexane derivatives; collection of articles]
Stereokhimia proizvodnykh tsiklogeksana; sbornik statei. Moskva,
Izd-vo inostr. lit-ry, 1958. 329 p. [Translated from the English
and French].
(MIRA 11:11)

1. Institut organicheskoy khimii im. N.D.Zelinskiy AN SSSR (for
Kucherov, Rudenko, Andreyev, Onishchenko, Segal).
(Cyclohexane)
(Stereochemistry)

MISTRYUKOV, E.A.; KUCHEROV, V.F.

Effect of the nitrogen function of 4-ketodecahydroquinoline
on the relative stability of cis- and trans-isomers. Izv.
AN SSSR. Otd.khim.nauk no.7:1343-1344 Jl '61. (MIRA 14:7)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Quinoline) (Isomers)

KUCHEROV, V.F.; IVANOVA, L.N.; SEVERINA, T.A.

Synthesis of some monoketones of the cis-hydrindan series.
Izv. AN SSSR. Otd.khim.nauk no.7:1348-1350 Jl '61. (MIRA 14:7)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Indanone)

GROMOV, Valerii Ivanovich, rank, doctor; 1917-1945, 1945.

Fatigue strength in case of repeated changes of loads and
conditions for surging the breakages. Inv. vys. ucheb. trav.;
vsechnost, no. 11:47-54, 163.

1. Nepreryvnoye zataishivaniye kryzhevym i nepr-
denzinozim' metallicheskikh struktur.

ACCESSION NR: AP4014386

S/0145/63/000/011/0047/0054

AUTHORS: Grebenik, V. M. (Candidate of technical sciences, docent); Kucherenko, V.
E. (Engineer)TITLE: Fatigue strength under repeated load change and conditions for summation of
failures

SOURCE: IVUZ. Mashinostroyeniye, no. 11, 1964, 47-54

TOPIC TAGS: fatigue strength, repeated load change, notch, flexural test, initial
stressABSTRACT: Three types of steel 15 specimens were fatigue-tested under repeated
load change conditions. The three types were: unnotched, smooth-notched, and
sharp-notched. Pure flexural tests under rotating conditions were accomplished on
the MUI-6000 machine. These tests were conducted at two stress levels, under
mechanical softening $\sigma_{\text{initial}} > \sigma_{\text{final}}$, and hardening conditions, $\sigma_{\text{final}} >$
 σ_{initial} . Two loading cycles up to failure were used for all three specimens, $N_1 =$
 5×10^5 and $N_2 = 0.7 \times 10^5$, and the base numbers of cycles N_0 for each specimen

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ACCESSION NR: AP4014386

were: $N_{01} = 10^6$, $N_{02} = 1.1 \times 10^6$, and $N_{03} = 1.2 \times 10^6$. To establish an equivalence criterion for all three specimens, the initial stress and final stress cycles were identical in number. The results were tabulated and plotted on graphs. At low values of λ - number of loading periods (reversal), the rule

$$\sum n_i/N_i = a = 1 \text{ where } a = \lambda \sum n_i/N_i$$

fails (n_i - total number of load cycles, N_i - number of load cycles up to failure). However, upon increasing λ , the value of $\sum n_i/N_i$ does tend to unity. Furthermore, for the notched specimens the strengthening effect was higher, and it increased with the sharpness of the notch. Finally, in the softening region, where $\sum n_i/N_i < 1$, the number of reversals was lower in the unnotched than in the notched specimens. The opposite was true in the hardening region. Orig. art. has: 5 figures, 3 tables, and 1 formula.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgy Institute); Dneprodzerzhinskiy metallurgicheskiy zavod-vtus (Dneprodzerzhinsk Metallurgical Works and Institute of Technology)

Card 2/3

ACCESSION NR: AP4014386

ENCL: 00

SUMITTED: 24Oct62

OTHER: 000

SUB CODE: MM

NO REF Sov: 010

3/3

Card

GREBENIK, V.M.; IVANCHENKO, F.K.; TYLMIN, M.A.; KUCHERENKO, V.F.

Strength and causes for the rupture of a drive shaft for the
mechanism of a propelled car on a floor-type charging machine.
Izv. vys. ucheb. zav.; chern. met. 8 no.1:69-175 '65
(MIRA 18:1)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.

- TM

APPENDIX A

RESULTS OF TENSILE RESISTANCE TESTS
ON 0.43 mm DIA. STEEL STICKS

ABSTRACT: Tests on specimens (0.43 mm in diameter) were conducted under both strengthening (increasing G_{eff}) and de-strengthening ($G_{\text{eff}} > G_{\text{eff}}$) conditions with a single one-step

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ACCESSION NR: AP4044121

increases at critical values of G_{in} -
at certain stresses

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KOROTKOV, G.I.; KUCHERENKO, V.G.; ZAKHAROV, A.Ye.; OVSYANNIKOVA, T.M.;
PANKOV, M.I.

Removal of riser heads. Metallurg 8 no.7:23 J1 '63.
(MIRA 16:8)

1. Zhdanovskiy metallurgicheskiy zavod im. Il'icha.
(Steel ingots)

ZHIGUL, A.V.; KROTKOV, G.I., KURAEV, V.I.; GLUZCHENKO, A.S.;
POLTORAK, P.A.

Semiautomatic cutting of thick sheet. Metallurg 10 no.6:32
(MIRA 18;6)
Je '65.

1. Zavod im. Il'icha i Dnepetskiy sovet narodnogo khozyaystva.

AVDEYEV, G.I.; CHECHIK, B.E.; KUCHERENKO, V.I.

Use of precipitin reaction in gel for the study of antigens in
the spleen of patients who have died from leukemia. Probl.
gemat. i perel. krovi 8. no.1:10-16 Ja '63. (MIRA 16:5)

1. Iz laboratorii virusologii (zav.-prof. V.V. Gorodilova) i
eksperimental'noy terapii opukholey (zav.-doktor med. nauk
V.M. Bergol'ts) Gosudarstvennogo onkologicheskogo instituta
imeni P.A. Gertseva (direktor-prof. A.N. Novikov).
(LEUKEMIA) (SPLEEN) (ANTIGENS AND ANTIBODIES—ANALYSIS)

KUCHERENKO, V. I.

Kucherenko, V. I.

"The problem of the ancolytic properties of normal and anti-tumor sera."
Acad Med Sci USSR. Inst of Epidemiology and Microbiology inst Honorary
Academician N. F. Gamaleya. Moscow, 1956. (Dissertation for the Degree
of Candidate in Medical Sciences).

Knizhnaya letopis'
No. 21, 1956. Moscow.

KUCHERENKO, V.I.

Comparative study of the antigenic properties of bone tissues in
myeloma and in health. Probl. genet. i perel. krovi ? no.11:3-12
(MIRA 18:4)
N '64.

1. laboratoriym eksperimental'noy terapii opukhalej (zav. - doktor
med. nauk V.M.Bergol'ts) Gosudarstvennogo nauchno-issledovatel'skogo
onkologicheskogo instituta imeni Gertseva (dir. - prof. A.N. Kovikov),
Moskva.

KOLOTIY, A.A.; KUCHERENKO, V.L.

Losses of tin and lead during dissolution in the systems of
fused salts SnCl_2 - (KCl) and PbCl_2 - (KCl - NaCl).
Ukr. khim. zhur. 30 no.1:57-59 '64. (MIRA 17:6)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

OKSEN', I.Z.; KUCHARENKO, V.M.

Controlling complete roof caving by mechanized removal of
timbering in a steep seam. Ugol.' 40 no.1:8-10 Ja '65.
(MIRA 18:4)

1. Glavnnyy inzh. shakhty No.5 im. Lenina tresta Gorlovskugol'
(for Oksen'). 2. Donetskiy nauchno-issledovatel'skiy ugol'nyy
institut (for Kucharenko).

1955, 12, 10, 1955, 12, 10, 1955, 12, 10,

A Simplified Production of Reaction of Agglutinin Adsorption.

TOZEMO-BEDITSKI SKIY ZURNAL (MILITARY MEDICAL JOURNAL), No 12, 1955. p.46

SYTSKO, P.A.; TITOV, S.A.; KOSTITSKIY, I.V.; KUCHERENKO, V.S.; MATVIYENKO, B.N.

Beginning made by the Orsha track workers. Put' i put. khos. no.9:
5-8 S '58. (MIRA 11:9)

1. Nachal'nik otdeleniya dorogi st. Orsha (for Sytsko). 2. Nachal'nik
distantsi puti st. Orsha (for Titov). 3. Nachal'nik vagonnogo uchastka
st. Orsha (for Kostitskiy). 4. Nachal'nik parovochnogo depo st. Orsha
(for Kucherenko). 5. Nachal'nik energeticheskogo otdela st. Orsha
(for Matviyenko).
(Orsha--Railroads--Track)

KUCHERENKO, Ye. M.

Antitoxic hepatic function in cancer of the internal organs, Vrach.
delo no.9:913-915 S '57.
(MLRA 10:9)

1. Kafedra gospod'nyy terapii (zav. - prof. F.F.Piays [decensed])
Vinitskogo meditsinskogo instituta
(VIMCSHA--CANCER) (LIVER)

BUKACHEV, YULIY, Candidate of Med. Sci. "On the complex study of the
antitoxic function of the liver in cancer of the intestinal organs."
Dnepropetrovsk, 1959. 12 pp (Min. of Health USSR. Dnepropetrovsk State
Med. Inst.), 200 copies. (L-24-50, 122)

-101-

KUCHERENKO, Ye.M.; VOITYUK, V.M.

Candidamycosis of the internal organs. Vrach.delo no.7:741-743 J1 '59.
(MIRA 12:12)

1. Kafedra gospital'noy terapii (zav. - prof. N.N. Kolotova) Vinnitskogo meditsinskogo instituta.
(MONILIASIS) (ANTIBIOTICS)

KOLOTOVA, N.N.; KUCHERENKO, Ye.M.; CHUBERKIS, T.P.

Indications and contraindications for *Rauwolfia serpentina* therapy
in hypertension. Sov.med. 23 no.10:112-115 O '59. (MIRA 13:2)

1. Iz kafedry gospital'noy terapii (zaveduyushchiy - doktor med.nauk
N.N. Kolotova) Vinnitskogo meditsinskogo instituta (direktor - dotsent
S.I. Korkhov).
(RAUWOLFIA therapy)

KUCHERENKO, Ye.M., kand.med.nauk (Vinnitsa, ul.L.Tolstogo, d.28); KUCHERENKO,
A.Ye., kand.med.nauk (Vinnitsa, ul.L.Tolstogo, d.28)

Surgeon's policy in gastric tetany. Nov. khir. arkh. no.2:38-43
Mr-Ap '60. (MIRA 14:11)

1. Kafedra gospital'noy terapii (zav. - prof. N.N.Kolotova)
Vinnitskogo meditsinskogo instituta i khirurgicheskoye otdeleniye
l-y Gorodskoy bol'nitsy.
(TETANY)

CHUBERKIS, T.P.; KUCHERENKO, Ye.M., kand.med.nauk

Forms of leucosis resembling tumors. Vrach.delo no.10:21-23 O '60.
(MIRA 13:11)

1. Kafedra gospital'noy terapii (zav. - prof. N.N.Kolotova)
Vinnitskogo meditsinskogo instituta.
(LEUKEMIA)

KUCHERENKO, Ye.M., kand.med.nauk

Clinical significance of the liver function test with sodium salicylate. Vrach. delo no.21/3-48 F '61. (MIRA 14:3)

1. Kafedra gospital'noy terapii (zav. - prof. N.N.Kolotova) Vinnitskogo meditsinskogo instituta.
(LIVER) (SODIUM SALICYLATE)

KUCHERENKO, Ya.M. (Vinnitsa)

Mitotoxic function of the liver in patients with leukosis. Probl.
gemat.i perel.krovi 6 no.4:41-42 Ap '61. (MIRA 14:6)
(LEUKEMIA) (LIVER)

KUCHERENKO, Ye.M., kand.med.nauk

Carbohydrate function of the liver. Vrach. delo no.8:30-34
Ag '61. (MIRA 15:3)

1. Kafedra gospital'noy terapii (zav. - prof. N.N. Kolotova)
Vinnitskogo meditsinskogo instituta.
(CARBOHYDRATE METABOLISM)
(LIVER)

GRINSHPUN, O.Ya.; KUCHERENKO, A.Ye., kand.med.nauk (Vinnitsa, ul.Tolstogo,
d.28); KUCHERENKO, Ye.M.

Speed of transmittal of a pulse wave along the arteries of the
lower extremities in endarteritis obliterans. Nov. khir. arkh.
no. 9:54-57 S '61. (MIRA 14:10)

1. Khirurgicheskoye otdeleniye (zav. - kand.mod.nauk A.Ye.Kucherenko)
2-y gorodskoy klinicheskoy bol'nitsy g. Vinnitsy.
(ARTERIES—DISEASES) (PULSE)

CHUBERKIS, T.P.; KUCHERENKO, Ye.M., kand.med.nauk; GRISHUN, O.Ya.

Changes in the ballistocardiogram in cancer of the internal organs.
(MIA 15:1)
Vrach. delo no.12:134 D '61.

1. Kafedra gospital'noy terapii (zaveduyushchiy - prof. N.N.Kolotova)
Vinnitskogo meditsinskogo instituta.
(BALLISTOCARDIOGRAPHY) (CANCER)

KUCHARENKO, Ye.M., kand.med.nauk

Changes in the myocardium in chronic tonsillitis. Zhur. ush. nos.
i gorl. bol. 21 no.4:63-68 Jl-Ag '61. (MIRA 15:1)

1. Iz kafedry gospital'noy terapii (zav. - prof. N.N.Kolotova)
Vinnitskogo meditsinskogo instituta.
(HEART--MUSCLE) (TONSILS--DISEASES)

KOLOTJOVA, N.N.; KUCHERENKO, Ye.M.; CHUBERKIS, T.P.

Possibility of a leukemogenic effect of industrial poisons. Trudy Kiev.
nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:243-247 '61.

(MIRA 17:10)

I. Kafedra respiratornoy terapii Vinnitskogo gosudarstvennogo medi-
tsinskogo instituta.

GRINSHPUN, O. Ya.; KUCHERENKO, A. Ye., kand. med. nauk; KUCHERENKO, Ye. M.,
kand. med. nauk; STUKALENKO, N. A. (Vinnitsa)

Pathogenesis of varicose veins of the lower extremities. Khirurgiia
no.2:55-59 '62. (MIRA 15:12)

(VARIX)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2

~~REPRODUCED FROM MICROFILM~~

"Ballistocardiographic Examinations of Case of Neurocirculatory Dystonia"

Voyenne Meditsinskiy Zhurnal, No. 4, 1962

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2"

GRINSHPUN, O.Ya., podpolkovnik meditsinskoy sluzhby (Vinnitsa);
KUCHERENKO, Ye.M., kand.med.nauk (Vinnitsa)

Use of pneumoelectro-oscillography in the diagnosis of the
stages of hypertension. Vrach.delo no.12:119-120 D '62.
(MIRA 15:12)

(OSCILLOGRAPHY)(HYPERTENSION)

KUCHERENKO, Ye. M., kand. med. nauk

Liver function in leukemia. Terap. 34 no.1:67-76 '62.
(MIRA 15:7)

1. Iz kafedry gospital'noy terapii (zav. - prof. N. N. Kolotova)
Vinnitskogo meditsinskogo instituta.

(LEUKEMIA) (LIVER)

KUCHERENKO, Ye.M., kand. med. nauk (Vinnitsa, ul. L. Tolstogo, d.21);
KADOSHCHUK, T.A.

Comprehensive study of the antitoxic function of the liver in
stomach cancer and complicated peptic ulcers. Klin. khir. no.10:
20-25'0 '62. (MIRA 16:7)

1. Kafedra gospital'noy khirurgii (zav.- prof. M.V. Danielenko)
i kafedra gospital'noy terapii (zav.- dotsent Yu.N. Golovtsev)
Vinnitskogo meditsinskogo instituta.
(LIVER) (STOMACH--CANCER) (PEPTIC ULCER)

KUCHERENKO, A.Ye., kand. med. nauk; KUCHERENKO, Yu.M., kand. med. nauk

Surgical interventions on organs in the abdominal cavity
in patients with rheumatic fever. Sov. Med. 26 no.9:30-35
(MIRA 17:4)
S '62.

1. Iz kliniki gospital'noy khirurgii (zav. - doktor med. nauk
M.V. Danilenko) i kliniki gospital'noy terapii (zav. - prof.
N.N. Kolotova) Vinnitskogo meditsinskogo instituta (dir. - dotsent
S.I. Korkhov).

"APPROVED FOR RELEASE: 03/13/2001

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MAY 1968 BY [unclear]

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RECORDED AND INDEXED
MAY 1968 BY [unclear]

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2"

GRINSHPUN, O.Ya.; SHATYREV, L.L.; VASIL'YEV, A.Ye., KUCHIRENKO, Ye.M.
(Vinnitsa)

Results of treatment of chronic neck spondarthritis (sclerotic form) with radon baths at the San'atnix Health Resort. Vsp.
Kur., Tzadikov, i Tech. fiz., No. 1, 1963, p. 306-309. Zh. fiz. '63.
(MIR. 17:9)

Category : USSR/Electrons - Electronic Optics

H-3

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1668

Author : Gabovich, M.D., Kucherenko, Ye.T.

Title : Penetrating Plasma and Its Connection with the Primary Focusing of an Ion Beam

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 5, 996-1003

Abstract : The penetrating plasma produced by discharge in hydrogen is investigated. It is established that this plasma is related to the characteristics of the ion-optical system. A diagram of the ion source used in the investigation is given. The pressure of the hydrogen in the source was approximately 4×10^{-4} mm mercury, and the maximum ion current drawn from the source was approximately 2.5 ma at a gas flow of approximately $7 \text{ cm}^3/\text{hr}$ and a power consumption of approximately 250 watts. To carry out the investigations, two movable probes were inserted in the source. The spatial distribution of the particle concentration, of the space potential, and of the electron temperature was determined. The voltage-current characteristics observed in the extraction of the ion beam from the source are ascribed to the changes in the localization of the penetrating plasma. It is stated, on the basis of the data obtained that the assumption encountered in the literature that the extracted ion current is limited by space charge, is not experimentally confirmed.

Card : 1/1

"APPROVED FOR RELEASE: 03/13/2001

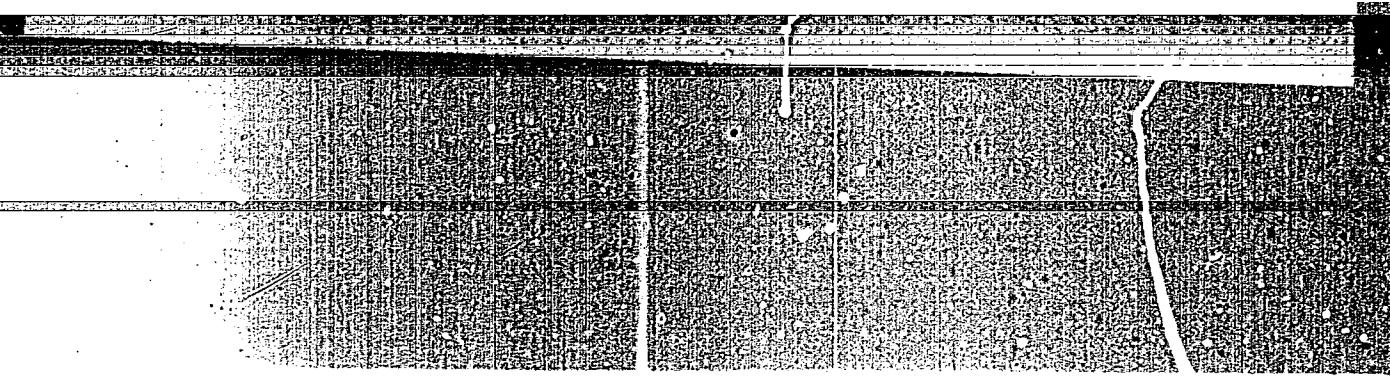
CIA-RDP86-00513R000827030009-2

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2



APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2"

AUTHOR: GABOVICH, M.D., KUCHERENKOV, E.T. PA - 2126
TITLE: Investigation of the penetrating plasma on the occasion of a discharge in mercury vapors (Isslyedovaniye pronikayushchey plazmy pri razryade v rtutnykh parakh. Russian).
PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 2, pp 299 - 308 (U.S.S.R.)
Received: 3 / 1957 Reviewed: 4 / 1957

ABSTRACT: On the occasion of the forming of an ion bundle the source of which is a discharge plasma there is a transition domain in which transition from the chaotic motion of ions to a directioned motion takes place. It was the task of this paper to investigate this transition domain, attention being confined solely to the discharge in mercury vapors. At first the device is described with the aid of which experiments were carried out. An illustration of this device is attached. Preliminary experiments, which were carried out with the help of another device, showed that when shifting the probe from the domain in which the discharge occurs into the domain to be investigated, the characteristics of the probe retain their normal aspect. These characteristics are shown in form of a diagram. A further diagram shows the axial distribution of the characteristics of the plasmas obtained if the negative potential is lacking. An approximated equation for this distribution is given. The following diagrams show an analogous distribution of characteristics for the discharge current of 90 A/cm^2

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PA - 2126

Investigation of the penetrating plasm on the occasion of a discharge in mercury vapors.

and the spatial distribution of the characteristics of the penetrating plasma for a discharge current of 20 A/cm^2 and 90 A/cm^2 . Furthermore, the influence exercised by the field on the configuration and extent of the penetrating plasmas was investigated. Experiments were carried out while at the same time the electric and magnetic fields exercised their influence. It was found that the temperature of the electron gas in the penetrating plasma diminishes considerably with a growing distance from the output opening. The gradient of the potential within the domain of the penetrating plasma is considerably higher (by several volts per cm) than in the discharge itself and it is directioned in such a manner that the ions are accelerated. The chaotic wall-flow of the ions emerging through the outlet opening is subjected to the influence of a highly accelerated field and is transformed into a flow with a predominant direction. From an equation derived it may be seen that the minimum amount of the potential within range of the outlet opening corresponds to the amount of the energy which the ions have in the transition zone near the negative probe. As long as the boundary of the penetrating plasma does not advance into the depth of the discharge, the entire ion flux passing through the opening is

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PA - 2126
Investigation of the penetrating plasma on the occasion of a discharge in mercury vapors.

determined only by the amount of the wall flux of the ions and is independent of the amount of the negative potential.

ASSOCIATION: Physical Institute of the Academy of Science of the U.S.S.R., Kiev
PRESENTED BY:
SUBMITTED: 6.1956
AVAILABLE: Library of Congress.

Card 3/3

NO.316
S/194/62/000/006/174/232
D201/D308

AUTHOR: Kucherenko, Ye.T.

TITLE: The performance of a two-electrode extraction system with a magnetic proton source

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, 48, abstract 6Zh313 (Visnyk Kyiv's'k un-

tu, 1958, no. 1, ser. fiz. ta khimiyi, no. 1, 117-121)

TEXT: The focussing properties of a Pearce electrode system of a gas discharge proton source of the magnetic source type with electron oscillations were analyzed (Zh Fiz, 1957, no. 1, 1668). In the system the ions are extracted from plasma outside the outlet aperture. The re-distribution of ion current between the extraction electrode, auxiliary electrode of ion current and the Faraday cylinder was investigated as a function of the increasing voltage. At 10 kV and discharge current 1.6 A there was practically no ion current at the first electrode, at the second electrode it was 0.35 mA and at the Faraday cylinder 1.4 mA. This proves that the plasma boundary at the above accelerating voltage, does not as yet coincide with the

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The performance of a two-electrode ... S/194/62/000/006/174/232
plane of the outlet aperture of the source, but is already approaching the beginning of formation of a cylindrical ion beam. The total ion current at the electrodes was independent of voltage within the limits 1 - 10 kV. Replacement of the Pearce extracting electrode by one with an apex angle of about 90° resulted in poorer focussing.
[Abstracter's note: Complete translation.]

24.2500

65726
SOV/139-59-2-25/30

AUTHORS:

Kucherenko, Ye.T., Dem'yanenko, V.P. and Tal'nova, G.N.
The Effect of Ion Bombardment on the Electron Emission
of an Oxide-Coated CathodeTITLE:
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959,
Nr 2, pp 160-168 (USSR)ABSTRACT: An experimental study has been made of the effect of ion bombardment on the emission of a well activated oxide-coated cathode. The effect of the ion energy (in the range 100 to 600 ev) and the magnitude of the ion current (in the range 1 to 15×10^{-6} amp/cm²) on the rate of decrease of the emission of an oxide-coated cathode working at a reduced temperature has been studied. The experiments were carried out using the tube shown in Fig 1. The construction of this instrument is similar to that described by Ptushinskiy (Ref 12). In Fig 1, 1 is the anode, 3 are tungsten cathodes and 2 are reflectors. The ion source 1-3 was filled with a 2×10^{-4} mm Hg. The argon at a pressure of about 2×10^{-4} mm Hg. The ionization was carried out by the method described by Ardenne and Heil in Ref 13. The cathode under investigation 10 was placed immediately behind the ion

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SOV/139-59-2-25/30

The Effect of Ion Bombardment on the Electron Emission of an Oxide-Coated Cathode

extracting system 4-6. The electrode 8 was used to measure the change in the emission of the cathode. Special precautions were taken to remove other gases etc before the tube was filled with argon. It was found that for argon ions of up to 600 ev and ion current densities up to 15μ amp/cm² noticeable fall in the emission is observed only at reduced cathode temperatures. At reduced temperature, the reduction in the emission depends strongly on the temperature, the ion energy and the ion current density. The following empirical relationships have been found

$$\alpha = \alpha_0 e^{\frac{Q}{KT}}$$

and

$$I = I_0 e^{-\alpha(V_p - b)I_{pt}} \quad (T = 990^\circ K)$$

$$\text{where } \alpha = \left[\frac{d(\lg I/I_0)}{dt} \right]_{t=0}; \quad I \text{ is the current at a}$$

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The Effect of Ion Bombardment on the Electron Emission of an
Oxide-Coated Cathode

ion energy; I_p is the ion current and a,b,Q are constants.
The corresponding graphs are shown in Fig 6, 8 and 9.
There are 9 figures and 18 references, 6 of which are
Soviet, 7 English, 1 German and 4 Japanese.

ASSOCIATION: Kiyevskiy gosuniversitet imeni T.G. Shevchenko
(Kiyev State University imeni T.G. Shevchenko)
SUBMITTED: July 1, 1958

Card 3/3

AUTHORS: Kucherenko, Ye.T. and Fedorus, A.G. Sov/109-4-8-1/35
 TITLE: Energy Distribution of the Ions Obtained From a High-frequency Source

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 8,
 pp 1233 - 1237 (USSR)

ABSTRACT: The experiments described were carried out by means of a specially constructed device having a high evacuation velocity. The device is illustrated in Figure 1. The ion source was in the form of the quartz chamber 1 which was fixed to the metal flange 2. The discharge chamber was furnished with an "extractor" system 3 whose dimensions were chosen in such a way that, for a minimum gas loss of 2 - 2.5 cm³/h, it was possible to obtain a sufficiently intensive ion beam when the potential difference between the channel and the upper electrode was comparatively small. The energy analyser was in the form of a cylindrical condenser (Ref 9) having a resolving power $U/\Delta U > 100$. By employing this method with a discharge voltage of 3 kV, a sharp energy peak having a width of 25 - 30 eV was observed on the energy-

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Energy Distribution of the Ions Obtained From a High-frequency Source Sov/109-4-8-1/35
 distribution curve. This is illustrated in Figure 2. The curve of Figure 2 was taken at a pressure $p = 4 \times 10^{-2}$ mm Hg (the gas being air) and a discharge current of 1.5 mA. A typical ion energy distribution curve for a discharge effected at 60 Mc/s is shown in Figure 3. The gas was hydrogen at a pressure of 2×10^{-2} mm Hg, the discharge was excited by means of a capacitance and the ion-extraction voltage was 1920 V. The curve has a maximum which embraces about 80% of all the ions and the width of the maximum is about 50 V. It was found that a similar distribution curve is obtained when the discharge is excited by means of an inductance. The discharges were also investigated without employing the ion-extracting device. The results are illustrated in Figure 4. Curve 1 in the figure was taken when the discharge was excited by means of external electrodes, the gas being hydrogen, at a pressure of 10^{-2} mm Hg; Curve 2 was taken at the same pressure but

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Energy Distribution of the Ions Obtained From a High-frequency Source
SOV/109-4-8-1/35
the discharge was excited inductively; Curve 3 was
measured in a discharge at a pressure 1.5×10^{-2} mm Hg,
the excitation being effected by means of internal
electrodes.
The authors make acknowledgment to Professor N.D. Morgulis
for discussions and his interest in this work.
There are 4 figures and 12 references, 7 of which are
English, 2 German and 3 Soviet.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im.
T.G. Shevchenko, Kafedra elektroniki (Kiyev State University
im. T.G. Shevchenko, Chair of Electronics) ✓

SUBMITTED: March 5, 1959

Card 3/3

AUTHORS: Kucherenko, Ye.T. and Nazarenko, O.K. SOV/109-4-8-4/35
TITLE: Properties of a Discharge with Electron Oscillations
in a Magnetic Field
PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 3.
pp 1253 - 1256 (USSR)
ABSTRACT: The effect investigated in this work was observed earlier by one of the authors (Refs 1 and 2). The experimental tube employed is illustrated in Figure 1. This consists of a cylindrical anode A, a heated cathode K and two reflectors R₁ and R₂; a known longitudinal field is applied to the system. Two different types of discharge can be produced in the system. The first operating regime occurs at pressures p < 2 × 10⁻³ mm Hg and is dependent on the form of the cathode; this is referred to as the "difficult regime". The cathodes in the tube were made of tungsten and were in the form of a long cylindrical helix, a short helix, a flat helix or a flat oxide cathode. The characteristics ✓
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SOV/109-4-8-4/35

Properties of a Discharge with Electron Oscillations in a Magnetic Field

of a difficult discharge in which the cathode was in the form of a cylindrical helix (length 20 mm, diameter 5 mm, spacing 2 mm) are illustrated in Figure 2a. This shows a change of the discharge current I_a , the ion current I_t extracted from the system by means of the Pierce device, and the discharge voltage U_a as a function of the magnitude of the magnetic field H . Figure 2b shows similar curves for a discharge with a flat helix oriented perpendicularly to the direction of the field. The discharge voltage U_a as a function of the magnetic field H is illustrated in Figure 3; the curve was taken with a flat helix, having a diameter of 10 mm, in hydrogen. As the gas pressure is increased, the supply-source voltage being constant, the ion current increases considerably in the region of the peaks (Figure 4a). A further increase in the pressure,

Card2/4 above 2×10^{-3} mm Hg, for hydrogen, results in a very

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Properties of a Discharge with Electron Oscillations in a Magnetic Field SOV/109-4-8-4/35

intense discharge, which is characterised by a low voltage drop; this is illustrated in Figure 46. A similar critical pressure is also observed in argon, the pressure being about 5×10^{-4} mm Hg. The discharge above the critical pressure is referred to as the "arc discharge". From Figures 5, it is seen that the increase in the supply voltage, in the case of an arc discharge, leads to an increase of the discharge and ion currents and to the broadening of the "existence" limits of the discharge (towards higher magnetic fields). The authors make acknowledgment to Professor N.D. Morgulis for discussion and his interest in this work.
There are 5 figures and 6 references, of which 1 is French, 1 German and 4 Soviet.

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Card 3/4

Properties of a Discharge with Electron Oscillations in a Magnetic
Field SOV/109-4-8-4/35

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im.
T.G. Shevchenko (Kiyev State University imeni
T.G. Shevchenko)

SUBMITTED: March 5, 1959

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Card 4/4

44702
 24.2/26 507/101-A-272/2
 AUT-28: Grigor'ev, V.I., Luk'yannov, S.Yu., Spivak, G.V. and
 Sivchenko, I.G.
 TITLE: Report on the Second All-Union Conference on Gas
 Electrodynamics

PUBLICATION: Radiotekhnika i elektronika, 1970, Vol. 5, No. 4,
 pp. 1339 - 1358 (Russia)
 ABSTRACT: The conference was organized by the Ad. Institute, the
 Ministry of Higher Education and Moscow State University.
 Achi. Shukla - Measurement of the gas Density During
 the Dynamic Operation of a Discharge (see p. 1356 of
 the journal). A.V. Fedorov - The Nature of a Streamlined
 Positive Column.
 V.F. Farkas and T.M. Lazar - The Theory of Probabilistic
 Kinetic Processes.
 D.M. Kagan et al. - The Positive Column of a Discharge
 in a Uniform Region.
 N.V. Kondratenko - Influence of the Pressure on Their Contraction
 and Annihilation of the Negative Ions in Their Generation
 in the Column.
 N.N. Lebedeva and L.D. Pechatnik - Anomalous Scattering
 of Particles in Planar Oscillations and Plasma Relaxation.
 N.L. Lichtenstein - Energy Losses by Charged Particles in
 the Oscillation of the Dielectric in Plasma (the language
 of the original).
 V.P. Moshkov and T.A. Shchegoleva - Dependence of
 the Current and the Ionization Coefficients on the
 Temperature in the Far-infrared Region of a Pulse
 Discharge on the Material of the Electrodes.
 V.A. Novikov and S.V. Al'ferov - Formation of Light
 Spots on the Anode of a Gas Discharge (see p. 1301 of
 the journal).
 S.I.A. Novozhilova - Distribution of Intensity
 Values in a Discharge.
 V.G. Stoyanov and V.P. Zabartsev - Some Phenomena
 in Discharged Plasmas.
 V.V. Starobin and V.I. Rastrelli - The Possibility of
 Generating Highly Concentrated Plasmas.
 G.V. Sazanovskaya and E.M. Sazanovskiy - Some Character-
 istics of the Discharge in an Ion Pump and in a Magnetic
 Semiconductor Vacuum Gauge.
 I.P. Sushchanskii and O.S. Malashko - Properties of
 Discharge with Electron Oscillations in a Magnetic
 Field (see p. 1325 of the journal).
 The properties of the discharge and its behavior
 under the influence of magnetic fields and various
 external factors are determined for different ionization
 or excitation levels.
 I.V. Slobodan and L.I. Tarashchik - A paper on
 A Nonstationary Theory of the Stark Broadening of the
 Spectral Lines in Plasma.
 M.A. Maslikh and S.I. Mandel'shtam - "The Broadened
 and the Sharp Spectral Lines in a Gas-discharge Plasma".
 S. Slobodan (England) - The Effect of Electron Collisions
 Leading to the Ionization of the Molecular Hydrogen in
 a Positive Discharge.
 V.I. Solntsevskiy et al. - Some Properties of the Arc
 Discharge in an Atmosphere of Inert Gases.
 A.A. Nek and N.B. Zemskov - Production of High
 Temperatures By Means of Spark Discharges.

7.3/20 (1003, 1138, 1331)
26, 231✓

33687
S/058/61/000/012/076/083
A058/A101

AUTHORS: Kucherenko, E. T., Dem'yanenko, V. P.

TITLE: Effect of ion bombardment on electron emission of oxide cathodes

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1961, 406 abstract 12Zh18
(Visnyk Kyyivs'k. un-tu, 1960, no. 3. ser. fiz. ta khimiy: no. 1
106 - 107, Ukr., Russ. summary)

TEXT: The effect of bombardment by argon ions with energies ranging from 100 to 800 ev on the electron emission of oxide cathodes with temperatures ranging from 725 to 1,070°K was investigated experimentally. It was found that in the initial moment the rate of electron-emission diminution is a linear function of ion-current density and ion energy and an exponential function of inverse temperature for constant values of ion-current density and ion energy. It was also found that the work function of oxide cathodes as determined by the Richardson method increases under the action of ion bombardment by a factor of 2 while cathode emission decreases by a factor of 7 - 8.

[Abstracter's note: Complete translation]

D. Vinogradov

Card 1/1

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S/109/60/005/009/016/026
E140/B455

26.2253

AUTHORS: Kucherenko, Ye.Ts., Dem'yanenko, G.N.
Tal'nova, G.N.

TITLE:

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.9,
pp.1493-1499
Effects of Ion Bombardment from Oxide and Boride Cathodes

TEXT: In continuation of work published in Ref.1, factory-produced plane cathodes 3 mm dia were tested. The electrical circuit indicated the cathode emissivity at very low temperatures was activated either by a pointer instrument or by ion bombardment, as described in Ref.1. In studying the effects of ion bombardment found that the equilibrium emission is dependent on the ion beam parameters. Hence, the interaction of the ion with the cathode surface can hardly be attributed to simple disruption of the active layer; other elementary phenomena must be assumed to be also present. The authors consider the dissociation of the oxide at the surface, connected with oxygen Card 1/3

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S/109/60/005/009/016/026
E140/B455

Effects of Ion Bombardment on the Electron Emission from Oxide and Boride Cathodes

evolution. This is partially confirmed by an exceedingly great increase of work function although the emissivity only decreases by a factor of 8. Further, if reactivation is neglected the logarithmic decrease of emission with time should be linear. However, in Fig.2 it is seen that this is not the case, although the initial rate of decrease agrees with the theoretical, neglecting reactivation. The studies of LaB₆ cathodes contradicted Lafferty's results (Ref.3) in that the effects of mercury ion bombardment were found to be reversible. Analysis of the present experimental material shows that LaB₆ cathodes at working temperatures are insensitive to bombardment by neon, argon and mercury ions in a range of energy up to 10 kV for argon, 3 V for neon and 2 kV for mercury, with beam currents 100 A/cm², 40 A/cm² and 25 A/cm² respectively. Changes in emissivity caused by ion bombardment at low temperature were reversible and it is assumed that they are connected with chemical changes in the surface state of the cathode. Acknowledgments are made to Card 2/3

KUCHERENKO, Ye. T. [Kucherenko, YE. T.]

The problem of electric propulsion of spaceships (ionic rockets).
Des. such. fiz. no.6:65-80 '62. (MIRA 16:1)

(Spaceships)

S/125/62/007/005/013/013
D407/D301

AUTHORS: Kucherenko, Ye.T., and Hroshev, I.M.

TITLE: Investigating energy spectrum of the canal rays of anomalous slow-discharge

PUBLICATION: Ukrayins'kyj fizichnyj zhurnal, v. 7, no. 5, 1962,
566 - 569.

TEXT: The presence of fine-structure in the energy spectrum of canal rays was observed by Ye.T. Kucherenko and G.I. Fedorov (Ref. 2: Radiotekhnika i elektronika, 4, 1233, 1959). In the present work, the fine-structure is further investigated, with the purpose of determining a quantitative relationship between the fine-structure and certain parameters of anomalous slow-discharge. The energy-spectrum of the canal rays was investigated by the cylindrical-energy-spectrum method. The electrical measuring-circuit is shown in a figure. The discharge-chamber was of glass with a tantalum cathode and a mobile nickel-anode. In developing the experimental procedure, the first measurements were conducted with the discharge in an air atmosphere. Analogous measurements were conducted in argon, and in a krypton-
Card 1/2

APPROVED FOR RELEASE: 03/13/2001

CIA

Investigating energy spectrum of ... S/125/62/007/005/013/013
D407/D301

Xenon mixture. The dependence of the collector current on the ion energy is plotted. A study of the dependence of the magnitude of the energy-distribution peak on the conditions of anomalous glow-discharge, showed that the determining parameter is the discharge current I_d . The relative magnitude of the peak increases sharply with I_d ; the converse is also true. On the other hand, the cathode voltage U_c has no appreciable effect on the relative magnitude of the peak. The presence of a pronounced peak in the energy distribution of canal rays, is an indication of the probability of ion passage through the entire cathode space without considerable energy-losses through collisions. The presence of fast ions in the spectrum of canal rays of anomalous glow-discharge, is an established fact. This is related to the increase in the magnitude of the peak (with increasing I_d). There are 4 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc, (including 1 translation).

ASSOCIATION: Kyyivs'kyj derzhuniversytet im. P.H. Shevchenko (Kyyiv State University im. T.H. Shevchenko) (Kyyiv
SUBMITTED: January 30, 1962
Card 2/2

KUCHERENKO, Ye.T.; AKHTYRSKAYA, Ye.V.; DEM'YANENKO, V.P.

Effect of the ion bombardment of inert gases and hydrogen on
the electron emission of pressed cathodes. Radiotekhnika i elektronika.
8 no.2:279-287 F '63. (MIRA 16:2)

1. Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko.
(Cathodes) (Thermionic emission)

KUCHERENKO, Ye.T.; POPOVICH, A.S.

Apparatus for controlled pulsed admission of gas. Prib. i tekhn.
eksp. 8 no.5:165-166 S-0 '63. (MIRA 16:12)

1. Kiyovskiy gosudarstvennyy universitet.

KUCHERENKO, Ye.T.; IGNATKO, V.P.

One form of an impeded discharge in a magnetic field. Radiotekh.
i elektron. 9 no.1:177-179 Ja '64. (MIRA 17:3)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000827030009-2

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ACCESSION NR. AP5010108

UR/0107/65/010/004/0141/0140

34

B

NAME Y A T Vavoreksiy I A

ABSTRACT: A new method of continuous monitoring of the emission from a cathode-bombarded target under the target conditions is proposed. Evaluation of the influence of the cathode-bombarding ion beam is substantiated. Results of measurements of the current density of the cathode-bombarded target.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827030009-2

ACCESSION NR: AP5010108

ASSOCIATION: none

SUBMITTED: 02Jan64

ENCL: 00

SUB CODE: EC

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L 4553-66 ENT(1)/ETC/EPF(n)-2/ENG(m)/EPA(w)-2 IJP(c) AT
ACCESSION NR: AP5020688 UR/0185/65/010/008/0838/0843
AUTHORS: Kucherenko, Ye. T.; Sayenko, V. A.

TITLE: Low-frequency oscillations in the plasma of a reflex discharge

SOURCE: Ukrayins'kyy fizichyy zhurnal, v. 10, no. 8, 1965, 838-843

TOPIC TAGS: plasma oscillation, discharge plasma, ionized plasma

ABSTRACT: Coherent oscillations with a frequency of 10^6 cps, appearing in a reflex discharge with a hot cathode at pressures $p < 10^{-3}$ mm Hg, are investigated for two types of discharge gap, one with a moving reflector. The frequency of the investigated oscillations did not depend on the probe potential, the discharge current and pressure, but depended strongly on the length of the discharge gap, the type of gas, the electron temperature, and the magnetic field intensity. The observed dependence of the frequency and amplitude of the oscillations on the magnetic field is related to the static features of the dis-

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L 4553-66

ACCESSION NR: AP5020688

charge. In discharges with electron oscillations at low pressures there exists a series of values of the magnetic field for which non-uniformly distributed densities of fast electrons emitted from the cathode are set up along the axis of the discharge. A series of maxima and the doubling of the oscillation frequency on going from the first to the second amplitude maximum indicates that at a magnetic field intensity $H = H_n$ conditions are most favorable for exciting oscillations of the n -th harmonic. This leads to an amplitude and frequency dependence of the oscillations on H . The explicit dependence of the frequency on the magnetic field which for small n is given by the same straight line independent of the size of the discharge gap is confirmed experimentally. The slope of this line, however, differs from the calculated slope, since the assumption was made in deriving it that the fast electrons are emitted from the cathode perpendicular to its surface and parallel to H . This assumption is incorrect for the toroidal cathode investigated. The slope for a plane cathode coincides with the calculated value. Orig. art. has: 3 formulas and 4 figures.

Cord 2/3

L 4553-66

ACCESSION NR: AP5020688

ASSOCIATION: Kyyivs'kyy derzhuniversytet im. T. H. Shevchenka
[Kievskiy gosudarstvennyy universitet im. T. G. Shevchenko] (Kiev
State University)

SUBMITTED: 16Sep64

ENCL: 00

SUB CODE: ME

NR REF Sov: 008

OTHER: 005

3

Card 3/3

BUKHARIN, Ya.I.; SUDIN, V.A.; AND YUZKAYA, V.I.

Nature of a reflector discharge in a magnetic field. Radiotekhnika i elektron. 10 no.10:1873-1879 0 US. (MIRA 18:10)

1. Kiyevskiy gosudarstvennyy universitet im. I.G.Shevchenko.

ACC NM AP5026914

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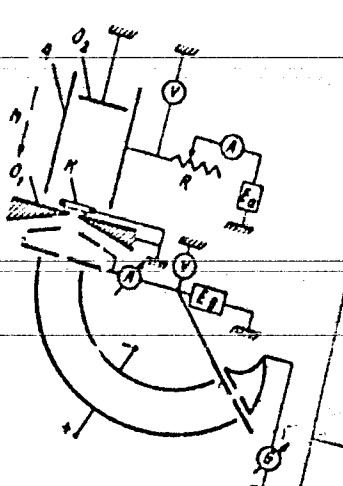
SOURCE CODE: UR/0109/65/010/010/1916/1918
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AUTHOR: Kucherenko, Ye. T.; Saycuk, V. A.

ORG: none

TITLE: Investigation of the energy spectrum of ions from a magnetic source
SOURCE: Radiotekhnika i elektronika, v. 10, no. 10, 1965, 1916-1918

TOPIC TAGS: ion source, magnetic ion source



ABSTRACT: An investigation (completed in 1962) of the energy spectrum of ions delivered by a constrained-discharge magnetic source is reported. The ions were extracted by cathode K which was represented by a tungsten spiral with an average diameter of 10 mm. Reflectors O₂ and O₃, and anode A were made from tantalum. Exit aperture diameter was 3 mm; anode diameter, 30 mm; discharge-chamber length, 35 mm. A cylindrical symmetically-fed capacitor was used for analyzing energies. With a pressure of $(2-3) \times 10^{-5}$ torr was maintained in the pressure chamber. A plot of ion current vs. magnetic-field strength shows several pronounced peaks within

UDC: 537.562 621.385.00

Card 2/2 20

KUCHERENKO, Yu. G.

Iu. G. KUCHERENKO, author of Skin Homotransplantation on Denervated Area.
(Full translation available in [REDACTED]/M.)

SO: Medichnii Zhurnal Akademii Nauk UPSR 14: 283-285; 1945, UNCLASSIFIED.

Iu. G. KUCHERENKO, author of "The formation of antibodies during homo- and hetero-
transplantation of the skin" Full translation available in [REDACTED]/I.

SO: Medichnii Zhurnal, 5:1, 1935, 295-296 (French summary). This French summary
is the same as the Ukrainian note on pages 294-5. UNCLASSIFIED.

KUCHARENKO, Z. A.

KUCHARENKO, Z. A. (Candidate of Veterinary Sciences, Ukrainian Institute of Experimental Veterinary Medicine.) Resistance of the fowl plague toward decomposition in summer.

To: Veterinariya; 24; 9; September 1947; Unclassified
TABSON

PA 63/49T100

DESR/Medicine - Viruses, Avian Pseudo- Plague Mar 49

Medicine - Therapeutics

"Resistance of the Virus of Avian Pseudo-Plague,"
Z. A. Kucherenko, Cand. Vet. Sci., Ukrainian Inst. of
Experimental Vet. Sci., 2 pp

"Veterinariya" No 3

Virus of avian pseudo-plague in chicken-blood smear is destroyed after 48-hour exposure to sunlight and after 72-hour exposure in chicken droppings. Disinfected light destroys the virus in blood smears and in chicken droppings after 12 days. In the shell

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DESR/Medicine - Viruses, Avian Pseudo- Mar/49
Plague (Contd)

of artificially infected eggs, the virus remains inactive during the incubation period under normal temperatures. The virus in the egg can be destroyed by formaldehyde fumes in one day, by 0.5% solution of caustic soda in 20 minutes, and by chlorinated water in 10 minutes.

KUCHERENKO, Z. A.

.63/49T100

KUCHEREPA, M.N., inzh.

Transportation of sections with diameters of 529 and 1020
mm. over the Amu Darya River and desert sand. Stroi. truboprov.
7 no.7:19-20 Jl '62. (MIRA 15:7)

1. Stroitel'noye upravleniye No.2 tresta Nefteprovodmontazh,
Tashkent.

(Pipe—Transportation)
(Gas, Natural—Pipelines)